

Title (en)

BICYCLE WITH MOVING AND/OR MORPHING AERODYNAMIC FRAME ELEMENTS

Title (de)

FAHRRAD MIT BEWEGLICHEN UND/ODER MORPHINGEN AERODYNAMISCHEN RAHMENELEMENTEN

Title (fr)

BICYCLETTE AVEC ÉLÉMENTS DE CADRE AÉRODYNAMIQUES MOBILES ET/OU DÉFORMABLES

Publication

EP 4330123 A1 20240306 (EN)

Application

EP 22794152 A 20220428

Priority

- US 202163182182 P 20210430
- CA 2022050651 W 20220428

Abstract (en)

[origin: WO2022226652A1] Described herein are frame elements for bicycles, and bicycles comprising such frame elements, which are moveable and/or morphable. The frame elements may be moveable and/or morphable in response to an external force, such as an aerodynamic wind load, or a control mechanism operatively connected thereto. Examples of the moveable and/or morphable frame elements include a front fork or one or more sections of the front fork, a seat tube or one or more sections of the seat tube, a cockpit or one or more sections of the cockpit, handlebars or one or more sections of the handlebars, a seat post or one or more sections of the seat post, a seat tube or one or more sections of the seat tube, a seat post or one or more sections of the seat post, a top tube or one or more sections of the top tube, and a head tube or one or more sections of the head tube.

IPC 8 full level

B62K 19/48 (2006.01); **B62K 19/02** (2006.01)

CPC (source: EP US)

B62J 1/08 (2013.01 - EP); **B62J 1/28** (2013.01 - EP); **B62J 17/00** (2013.01 - US); **B62K 3/02** (2013.01 - US); **B62K 3/04** (2013.01 - EP); **B62K 19/02** (2013.01 - EP); **B62K 21/02** (2013.01 - EP); **B62K 21/125** (2013.01 - EP US); **B62J 1/08** (2013.01 - US); **B62K 19/16** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022226652 A1 20221103; CN 117642332 A 20240301; EP 4330123 A1 20240306; US 2024217608 A1 20240704

DOCDB simple family (application)

CA 2022050651 W 20220428; CN 202280046781 A 20220428; EP 22794152 A 20220428; US 202218288895 A 20220428